Design Procedure Checklist

Engineer		Project
		Description
City/County	-	
	<u> </u>	
Maps:		Hydraulics Section Records
USGS Quad Scale	Date	Hydraulics Section Records
OSOS Quad Scale	Date	Flood Record (High Water, Newspaper)
Flood Hazard Delineation (Quad.)		_ Trood Record (Fight Water, Newspaper)
		Bridge Inspection Reports
Flood Plain Delineation (HUD)		
		_
Flood Insurance Firm & FHBM		CALIBRATION OF HIGH-WATER DATA:
Local Land Use		Disabarga and Fraguency of H.W. al
Local Land Use		Discharge and Frequency of H.W. el.
Soils Map		Influences Responsible for H.W. el.
To a second		
Geologic Maps		
		_
Aerial Photos Scale	Date	Analyze Hydraulic Performance of Existing
CONTINUES BY EXCEPTION A CENT	TEC	Facilityfor 100-Year Flood
STUDIES BY EXTERNAL AGENC	CIES:	Analyze Hydraulic Performance of Proposed
USACE Flood Plain Inform. Report		Facility for 100-Year Flood
OS/ CL I food I fam morm. Report		
NRCS Watershed Studies PFP-I	HYDRO	
		_
Local Watershed Management		(Recon. Revisions) Report
		_
USGS Gages & Studies		
Interim Flood Plain Studies		DESIGN APPURTENANCES:
Internii Flood Flaiii Studies		DESIGNATION ENTERNACES.
Water Resources Data		Dissipators, <i>Rip Rap</i>
Water Resources Bata		
Regional Planning Data		Scour Analysis/Evaluation
		TITLE C. DI
Forestry Service		Utility Company Plans
DEMA Eland Lance Co. P.		TECHNICAL RESOURCES:
FEMA Flood Insurance Studies		I ECHNICAL RESOURCES.
STUDIES BY INTERNAL SOURCE	ES.	Indiana Design Manual, Part IV

DESIGN PROCEDURE CHECKLIST

Technical Library	
	DATA REPORTS:
	INDOT Data
DISCHARGE CALCULATIONS:	ENVIRONMENTAL REPORTS:
Drainage Areas	
Formula	_ INDOT
HEC-1/ <i>TR-20</i>	TECHNICAL AIDS:
HEC-1/1 K-20	Indiana Design Manual, Part IV
NRCS	INDOT & FHWA Directives
Gaging Data - Regional Analysis	-
	Technical Library
Regression Equations	
Area-Discharge Curves	COMPUTER PROGRAMS:
Log-Pearson Type III Gage Rating	HY8, CDS
	Direct Step Water Surface Profile
	USACE HEC-2 Water Surface Profile
HIGH-WATER ELEVATIONS:	FHWA Bridge Backwater
INDOT Survey	Log-Pearson Type III Analysis
External Sources	WSPRO Water Surface Profile
Personal Reconnaissance	PFP-HYDRA
	FESWMS
FLOOD HISTORY:	HEC-1/TR 20
Erosion & Sediment Control	HY-9 Scour Analysis
External Sources	USACE HEC-RAS River Analysis System
Personal Reconnaissance	_ BRISTARS
Maintenance Records	_

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